Available online at www.sciencedirect.com
SCIENCE DIRECT®
ELSEVIER
Optics Communications 245 (2005) 471–476
OPTICS COMMUNICATIONS
www.elsevier.com/locate/optcom

# Author index to volume 245

Adams, M.J., see Talli, G. 245 (2005) 363
Aditya, S., see Ning, G. 245 (2005) 153
Agez, G., P. Glorieux, C. Szwaj and E. Louvergneaux, Using noise speckle pattern for the measurements of director reorientational relaxation time and diffusion length of aligned liquid crystals 245 (2005) 243
Aközbek, N., see Théberge, F. 245 (2005) 399
Alam, M.S., see Horache, E.H. 245 (2005) 93
Andersen, P.E., see Samsøe, E. 245 (2005) 333
Avagyan, R., see Hovhannisyan, D. 245 (2005) 443

Bao, X., see Yang, S. 245 (2005) 371
Bindra, K.S., see Singh, C.P. 245 (2005) 407
Biswas, D.J., see Kumar, A. 245 (2005) 289
Bonod, N., E. Popov and M. Nevière, Light transmission through a subwavelength microstructured aperture: electromagnetic theory and applications 245 (2005) 355
Buchter, S.C., see Shevchenko, A. 245 (2005) 349

Cangellaris, A., see Pant, R. 245 (2005) 315
Cao, Z., see He, Y. 245 (2005) 125
Cao, W.-h. and P.K.A. Wai, Comparison of fiber-based Sagnac interferometers for self-switching of optical pulses 245 (2005) 177
Cap, N., see Ruiz, B. 245 (2005) 103
Chen, Z., see Qiu, Y. 245 (2005) 21
Chen, S., see Liu, J. 245 (2005) 137
Chen, S.-Q., see Liu, Z.-B. 245 (2005) 377
Chen, J., see Zhu, H. 245 (2005) 1
Chen, P.Y.P., P.L. Chu and B.A. Malomed, An iterative numerical method for dispersion-managed solitons 245 (2005) 425
Chen, C.-H., P.-T. Tai, W.-H. Chiu and W.-F. Hsieh, Transverse excess noise factor and transverse mode locking in a gain-guided laser 245 (2005) 301
Chi, W. and N. George, Integrated imaging with a centrally obscured logarithmic asphere 245 (2005) 85
Chicharo, J.F., see Li, E.B. 245 (2005) 309
Chin, S.L., see Théberge, F. 245 (2005) 399

doi:10.1016/S0030-4018(04)01357-4

Chiu, W.-H., see Chen, C.-H. 245 (2005) 301
Choi, S., see Kim, K.T. 245 (2005) 145
Chu, P.L., see Driben, R. 245 (2005) 227
Chu, P.L., see Chen, P.Y.P. 245 (2005) 425
Chung, H.S. and Y.C. Chung, Directly modulated CWDM/DWDM system using negative dispersion fiber for metro network application 245 (2005) 171
Chung, Y.C., see Chung, H.S. 245 (2005) 171
Creely, C.M., G.P. Singh and D. Petrov, Dual wavelength optical tweezers for confocal Raman spectroscopy 245 (2005) 465

Damzen, M.J., see Minassian, A. 245 (2005) 295
Ding, X., see Xu, D.-G. 245 (2005) 341
Dong, X.Y., see Ning, G. 245 (2005) 153
Driben, R., B.A. Malomed and P.L. Chu, Transmission of pulses in a dispersion-managed fiber link with extra nonlinear segments 245 (2005) 227

Endo, S., see Kakui, M. 245 (2005) 193
Erko, A., see Michette, A.G. 245 (2005) 249
Eyyuboğlu, H.T., Propagation of Hermite-cosh-Gaussian laser beams in turbulent atmosphere 245 (2005) 37

Feng, X., X. Liu, W. Zhang and J. Peng, Investigation of dynamical pump control for backward-pumped fiber Raman amplifiers 245 (2005) 211
Firsov, A., see Michette, A.G. 245 (2005) 249

Gao, Y., see Zhu, K. 245 (2005) 203
Gao, H., see Zhu, H. 245 (2005) 1
Garcia, J., see Otón, J. 245 (2005) 113
Garcia-Martinez, P., see Otón, J. 245 (2005) 113
George, N., see Chi, W. 245 (2005) 85
Glorieux, P., see Agez, G. 245 (2005) 243
Gong, Y.D., see Ning, G. 245 (2005) 153
Gravel, J.-F., see Théberge, F. 245 (2005) 399
Guerrero, R.A., Volume holographic storage and animation based on addressing with an elastomer phase mask 245 (2005) 75
Guo, H., see Qiu, Y. 245 (2005) 21
Gupta, B.D., see Sharma, A.K. 245 (2005) 159

Hall, M.A., see Shahriar, M.S. 245 (2005) 67
Han, P., see Hwang, H.-E. 245 (2005) 11
Hao, R., L. Li, Z. Li, R. Yang and G. Zhou, A new way to exact quasi-soliton solutions and soliton interaction for the cubic-quintic nonlinear Schrödinger equation with variable coefficients 245 (2005) 383
He, Y., Z. Cao and Q. Shen, Guided optical modes in asymmetric left-handed waveguides 245 (2005) 125
Heifetz, A., see Shahriar, M.S. 245 (2005) 67
Ho, K.-P., Mid-span compensation of nonlinear phase noise 245 (2005) 391
Horache, E.H. and M.S. Alam, Remove dc term and false alarms in fringe-adjusted joint transform correlator by using binary random phase mask 245 (2005) 93

Hovhannisyan, D., K. Stepanyan and R. Avagyan, Sum and difference frequency generation by femtosecond laser pulses in a nonlinear crystal 245 (2005) 443
Hsieh, W.-F., see Chen, C.-H. 245 (2005) 301
Hu, J., see Xu, D.-G. 245 (2005) 341
Hwang, H.-E. and P. Han, Fractional Fourier transform optimization approach for analyzing optical beam propagation between two spherical surfaces 245 (2005) 11
Hwangbo, S., see Kim, K.T. 245 (2005) 145

Ishikawa, S., see Kakui, M. 245 (2005) 193

Jain, B., see Singh, C.P. 245 (2005) 407
Jiang, G., see Zhou, H.-x. 245 (2005) 49

Kablukov, S.I., see Klug, M. 245 (2005) 415
Kaivola, M., see Shevchenko, A. 245 (2005) 349
Kakui, M., M. Takagi, S. Endo, S. Ishikawa and M. Shigematsu, Dynamic-gain-tilt-free S-band optical amplifiers employing silica-based phosphorous/alumina-codoped EDFs designed for multi-wavelength photonic networks 245 (2005) 193
Kanj, H., see Pant, R. 245 (2005) 315
Karasiński, P. and R. Rogoziński, Rib waveguides fabricated by means of chemical etching of sol–gel $SiO_2$:$TiO_2$ films 245 (2005) 237
Kim, H.K., see Kim, K.T. 245 (2005) 145
Kim, K.T., H.K. Kim, S. Hwangbo, S. Choi, B.H. Lee and K. Oh, Characterization of evanescent wave coupling in side-polished hollow optical fiber and its application as a broadband coupler 245 (2005) 145
Kjærgaard, N., see Samsøe, E. 245 (2005) 333
Klug, M., S.I. Kablukov and B. Wellegehausen, Cw hyper-Raman laser and four-wave mixing in atomic sodium 245 (2005) 415
Korneev, N. and J. Soto, The nonlinear Faraday rotation-based dynamic holography in rubidium vapor 245 (2005) 437
Kumar, A., J.P. Nilaya and D.J. Biswas, Single mode lasing from a TEA $CO_2$ laser by the elimination of spatial hole burning effect 245 (2005) 289

Lai, R., see Zhou, H.-x. 245 (2005) 49
Lausen, H., see Samsøe, E. 245 (2005) 333
Lee, J.K., see Shahriar, M.S. 245 (2005) 67
Lee, B.H., see Kim, K.T. 245 (2005) 145
Li, E.B., J. Xi, J.F. Chicharo, J.Q. Yao and D.Y. Yu, Multi-point laser Doppler velocimeter 245 (2005) 309
Li, S.-s., see Zhang, G.-f. 245 (2005) 457
Li, L., see Hao, R. 245 (2005) 383
Li, Z., see Hao, R. 245 (2005) 383
Li, R., see Zhu, H. 245 (2005) 1
Li, E., see Xu, D.-G. 245 (2005) 341
Liang, J.-q., see Zhang, G.-f. 245 (2005) 457
Lin, W.-Z., see Zhang, H.-C. 245 (2005) 271
Lindfors, K., see Shevchenko, A. 245 (2005) 349
Liu, J., J. Yu, S. Chen and J. Xia, Fabrication and analysis of $2 \times 2$ thermo-optic SOI waveguide switch with low power consumption and fast response by anisotropy chemical etching 245 (2005) 137

Liu, W., see Théberge, F. 245 (2005) 399
Liu, S.-q., see Zhou, H.-x. 245 (2005) 49
Liu, X., see Feng, X. 245 (2005) 211
Liu, Z.-B., W.-Y. Zhou, J.-G. Tian, S.-Q. Chen, W.-P. Zang, F. Song and C.-P. Zhang, Characteristics of co-existence of third-order and transient thermally induced optical nonlinearities in nanosecond regime 245 (2005) 377
Louvergneaux, E., see Agez, G. 245 (2005) 243
Lushnikov, P.M., Diffusion of optical pulses in dispersion-shifted randomly birefringent optical fibers 245 (2005) 187

Malomed, B.A., see Driben, R. 245 (2005) 227
Malomed, B.A., see Chen, P.Y.P. 245 (2005) 425
Michette, A.G., S.J. Pfauntsch, A. Erko, A. Firsov and A. Svintsov, Nanometer focusing of X-rays with modified reflection zone plates 245 (2005) 249
Minassian, A., B. Thompson and M.J. Damzen, High-power $TEM_{00}$ grazing-incidence Nd:$YVO_4$ oscillators in single and multiple bounce configurations 245 (2005) 295
Moreno, I., see Otón, J. 245 (2005) 113

Neifeld, M.A., see Pant, R. 245 (2005) 315
Nevière, M., see Bonod, N. 245 (2005) 355
Ng, J.H., see Ning, G. 245 (2005) 153
Nilaya, J.P., see Kumar, A. 245 (2005) 289
Ning, G., S. Aditya, P. Shum, Y.D. Gong, X.Y. Dong and J.H. Ng, A PMD compensator with Hi–Bi chirped FBG free from chromatic dispersion 245 (2005) 153
Niu, Y.-X., see Xu, D.-G. 245 (2005) 341

Oak, S.M., see Singh, C.P. 245 (2005) 407
Oh, K., see Kim, K.T. 245 (2005) 145
Osten, W., see Seifert, L. 245 (2005) 255
Otón, J., P. Garcia-Martinez, I. Moreno and J. Garcia, Phase joint transform sequential correlator for nonlinear binary correlations 245 (2005) 113

Pant, R., M.A. Neifeld, M.B. Steer, H. Kanj and A. Cangellaris, Electrical package impact on VCSEL-based optical interconnects 245 (2005) 315
Paszkiewicz, R. and P. Szczepanski, Effect of excess-quantum noise in a one-dimensional photonic crystal laser 245 (2005) 281
Peng, J., see Feng, X. 245 (2005) 211
Petersen, P.M., see Samsøe, E. 245 (2005) 333
Petrov, D., see Creely, C.M. 245 (2005) 465
Pfauntsch, S.J., see Michette, A.G. 245 (2005) 249
Phuoc, T.X., A comparative study of the photon pressure force, the photophoretic force, and the adhesion van der Waals force 245 (2005) 27
Ponomarev, E.A., see Yang, S. 245 (2005) 371
Popov, E., see Bonod, N. 245 (2005) 355

Qiu, Y., H. Guo and Z. Chen, Paraxial propagation of partially coherent Hermite–Gauss beams 245 (2005) 21

Rabal, H., see Ruiz, B. 245 (2005) 103
Rogoziński, R., see Karasiński, P. 245 (2005) 237
Ruiz, B., N. Cap and H. Rabal, Local correlation in dynamic speckle 245 (2005) 103

Samsøe, E., N. Kjærgaard, H. Lausen, P.E. Andersen and P.M. Petersen, An external-cavity laser diode at 635 nm for laser display applications 245 (2005) 333
Seifert, L., H.J. Tiziani and W. Osten, Wavefront reconstruction with the adaptive Shack–Hartmann sensor 245 (2005) 255
Shahriar, M.S., J.T. Shen, M.A. Hall, R. Tripathi, J.K. Lee and A. Heifetz, Highly polarization-sensitive thick gratings for a holographic Stokesmeter 245 (2005) 67
Sharma, A.K. and B.D. Gupta, On the sensitivity and signal to noise ratio of a step-index fiber optic surface plasmon resonance sensor with bimetallic layers 245 (2005) 159
Shen, J.T., see Shahriar, M.S. 245 (2005) 67
Shen, Q., see He, Y. 245 (2005) 125
Shevchenko, A., K. Lindfors, S.C. Buchter and M. Kaivola, Evanescent-wave pumped cylindrical microcavity laser with intense output radiation 245 (2005) 349
Shigematsu, M., see Kakui, M. 245 (2005) 193
Shum, P., see Ning, G. 245 (2005) 153
Singh, G.P., see Creely, C.M. 245 (2005) 465
Singh, C.P., K.S. Bindra, B. Jain and S.M. Oak, All-optical switching characteristics of metalloporphyrins 245 (2005) 407
Situ, G. and J. Zhang, Image hiding with computer-generated phase codes for optical authentication 245 (2005) 55
Song, L., see Zhu, H. 245 (2005) 1
Song, F., see Liu, Z.-B. 245 (2005) 377
Soto, J., see Korneev, N. 245 (2005) 437
Steer, M.B., see Pant, R. 245 (2005) 315
Stepanyan, K., see Hovhannisyan, D. 245 (2005) 443
Svintsov, A., see Michette, A.G. 245 (2005) 249
Szczepanski, P., see Paszkiewicz, R. 245 (2005) 281
Szwaj, C., see Agez, G. 245 (2005) 243

Tai, P.-T., see Chen, C.-H. 245 (2005) 301
Takagi, M., see Kakui, M. 245 (2005) 193
Talli, G. and M.J. Adams, Gain recovery acceleration in semiconductor optical amplifiers employing a holding beam 245 (2005) 363
Tang, H., see Zhu, K. 245 (2005) 203
Théberge, F., N. Aközbek, W. Liu, J.-F. Gravel and S.L. Chin, Third harmonic beam profile generated in atmospheric air using femtosecond laser pulses 245 (2005) 399
Thompson, B., see Minassian, A. 245 (2005) 295
Tian, J.-G., see Liu, Z.-B. 245 (2005) 377
Tiziani, H.J., see Seifert, L. 245 (2005) 255
Tripathi, R., see Shahriar, M.S. 245 (2005) 67

Wai, P.K.A., see Cao, W.-h. 245 (2005) 177
Wang, P., see Xu, D.-G. 245 (2005) 341
Wang, Y.-Z., see Zhang, H.-C. 245 (2005) 271

Wellegehausen, B., see Klug, M. 245 (2005) 415
Wen, W.-Q., see Xu, D.-G. 245 (2005) 341

Xi, J., see Li, E.B. 245 (2005) 309
Xia, J., see Liu, J. 245 (2005) 137
Xu, D.-G., J.-Q. Yao, B.-G. Zhang, R. Zhou, E. Li, S.-Y. Zhao, X. Ding, W.-Q. Wen, Y.-X. Niu, J. Hu and P. Wang, 110 W high stability green laser using type II phase matching $KTiOPO_4$ (KTP) crystal with boundary temperature control 245 (2005) 341
Xu, Z., see Zhu, H. 245 (2005) 1

Yang, R., see Hao, R. 245 (2005) 383
Yang, S., E.A. Ponomarev and X. Bao, Experimental study on relaxation oscillation in a detuned FM harmonic mode-locked Er-doped fiber laser 245 (2005) 371
Yao, J.Q., see Li, E.B. 245 (2005) 309
Yao, J.-Q., see Xu, D.-G. 245 (2005) 341
Yu, J., see Liu, J. 245 (2005) 137
Yu, D.Y., see Li, E.B. 245 (2005) 309

Zang, W.-P., see Liu, Z.-B. 245 (2005) 377
Zhang, C.-P., see Liu, Z.-B. 245 (2005) 377
Zhang, G.-f., S.-s. Li and J.-q. Liang, Thermal entanglement in Spin-1 biparticle system 245 (2005) 457
Zhang, H.-C., W.-Z. Lin and Y.-Z. Wang, The origin of the transverse relaxation time in optically excited semiconductor quantum wells 245 (2005) 271
Zhang, B.-G., see Xu, D.-G. 245 (2005) 341
Zhang, J., see Situ, G. 245 (2005) 55
Zhang, W., see Feng, X. 245 (2005) 211
Zhao, S.-Y., see Xu, D.-G. 245 (2005) 341
Zhou, H.-x., R. Lai, S.-q. Liu and G. Jiang, New improved nonuniformity correction for infrared focal plane arrays 245 (2005) 49
Zhou, W.-Y., see Liu, Z.-B. 245 (2005) 377
Zhou, G., see Hao, R. 245 (2005) 383
Zhou, R., see Xu, D.-G. 245 (2005) 341
Zhu, H., L. Song, J. Chen, H. Gao, R. Li and Z. Xu, Modified formula of Malus' law for Glan–Taylor polarizing prisms 245 (2005) 1
Zhu, K., Y. Gao and H. Tang, Paraxial propagation of Gaussian beam through curved tapered graded-index waveguides 245 (2005) 203

Available online at www.sciencedirect.com
SCIENCE DIRECT®
Optics Communications 245 (2005) 477–480
OPTICS COMMUNICATIONS
www.elsevier.com/locate/optcom

# Subject index to volume 245

*Physical optics*

H. Zhu, L. Song, J. Chen, H. Gao, R. Li and Z. Xu, Modified formula of Malus' law for Glan–Taylor polarizing prisms 1

H.-E. Hwang and P. Han, Fractional Fourier transform optimization approach for analyzing optical beam propagation between two spherical surfaces 11

Y. Qiu, H. Guo and Z. Chen, Paraxial propagation of partially coherent Hermite–Gauss beams 21

T.X. Phuoc, A comparative study of the photon pressure force, the photophoretic force, and the adhesion van der Waals force 27

H.T. Eyyuboğlu, Propagation of Hermite-cosh-Gaussian laser beams in turbulent atmosphere 37

*Optical information and image processing*

H.-x. Zhou, R. Lai, S.-q. Liu and G. Jiang, New improved nonuniformity correction for infrared focal plane arrays 49

G. Situ and J. Zhang, Image hiding with computer-generated phase codes for optical authentication 55

M.S. Shahriar, J.T. Shen, M.A. Hall, R. Tripathi, J.K. Lee and A. Heifetz, Highly polarization-sensitive thick gratings for a holographic Stokesmeter 67

R.A. Guerrero, Volume holographic storage and animation based on addressing with an elastomer phase mask 75

W. Chi and N. George, Integrated imaging with a centrally obscured logarithmic asphere 85

E.H. Horache and M.S. Alam, Remove dc term and false alarms in fringe-adjusted joint transform correlator by using binary random phase mask 93

B. Ruiz, N. Cap and H. Rabal, Local correlation in dynamic speckle 103

J. Otón, P. Garcia-Martinez, I. Moreno and J. Garcia, Phase joint transform sequential correlator for nonlinear binary correlations 113

doi:10.1016/S0030-4018(04)01358-6

*Guided wave optics*

Y. He, Z. Cao and Q. Shen, Guided optical modes in asymmetric left-handed waveguides 125

J. Liu, J. Yu, S. Chen and J. Xia, Fabrication and analysis of 2 × 2 thermo-optic SOI waveguide switch with low power consumption and fast response by anisotropy chemical etching 137

K.T. Kim, H.K. Kim, S. Hwangbo, S. Choi, B.H. Lee and K. Oh, Characterization of evanescent wave coupling in side-polished hollow optical fiber and its application as a broadband coupler 145

G. Ning, S. Aditya, P. Shum, Y.D. Gong, X.Y. Dong and J.H. Ng, A PMD compensator with Hi–Bi chirped FBG free from chromatic dispersion 153

A.K. Sharma and B.D. Gupta, On the sensitivity and signal to noise ratio of a step-index fiber optic surface plasmon resonance sensor with bimetallic layers 159

H.S. Chung and Y.C. Chung, Directly modulated CWDM/DWDM system using negative dispersion fiber for metro network application 171

W.-h. Cao and P.K.A. Wai, Comparison of fiber-based Sagnac interferometers for self-switching of optical pulses 177

P.M. Lushnikov, Diffusion of optical pulses in dispersion-shifted randomly birefringent optical fibers 187

M. Kakui, M. Takagi, S. Endo, S. Ishikawa and M. Shigematsu, Dynamic-gain-tilt-free S-band optical amplifiers employing silica-based phosphorous/alumina-codoped EDFs designed for multi-wavelength photonic networks 193

K. Zhu, Y. Gao and H. Tang, Paraxial propagation of Gaussian beam through curved tapered graded-index waveguides 203

X. Feng, X. Liu, W. Zhang and J. Peng, Investigation of dynamical pump control for backward-pumped fiber Raman amplifiers 211

R. Driben, B.A. Malomed and P.L. Chu, Transmission of pulses in a dispersion-managed fiber link with extra nonlinear segments 227

P. Karasiński and R. Rogoziński, Rib waveguides fabricated by means of chemical etching of sol–gel $SiO_2$:$TiO_2$ films 237

*Optical properties of condensed and soft matter*

G. Agez, P. Glorieux, C. Szwaj and E. Louvergneaux, Using noise speckle pattern for the measurements of director reorientational relaxation time and diffusion length of aligned liquid crystals 243

A.G. Michette, S.J. Pfauntsch, A. Erko, A. Firsov and A. Svintsov, Nanometer focusing of X-rays with modified reflection zone plates 249

L. Seifert, H.J. Tiziani and W. Osten, Wavefront reconstruction with the adaptive Shack–Hartmann sensor 255

*Quantum optics*

H.-C. Zhang, W.-Z. Lin and Y.-Z. Wang, The origin of the transverse relaxation time in optically excited semiconductor quantum wells 271

R. Paszkiewicz and P. Szczepanski, Effect of excess-quantum noise in a one-dimensional photonic crystal laser 281

*Lasers and laser applications*

A. Kumar, J.P. Nilaya and D.J. Biswas, Single mode lasing from a TEA $CO_2$ laser by the elimination of spatial hole burning effect 289

A. Minassian, B. Thompson and M.J. Damzen, High-power $TEM_{00}$ grazing-incidence Nd:$YVO_4$ oscillators in single and multiple bounce configurations 295

C.-H. Chen, P.-T. Tai, W.-H. Chiu and W.-F. Hsieh, Transverse excess noise factor and transverse mode locking in a gain-guided laser 301

E.B. Li, J. Xi, J.F. Chicharo, J.Q. Yao and D.Y. Yu, Multi-point laser Doppler velocimeter 309

R. Pant, M.A. Neifeld, M.B. Steer, H. Kanj and A. Cangellaris, Electrical package impact on VCSEL-based optical interconnects 315

E. Samsøe, N. Kjærgaard, H. Lausen, P.E. Andersen and P.M. Petersen, An external-cavity laser diode at 635 nm for laser display applications 333

D.-G. Xu, J.-Q. Yao, B.-G. Zhang, R. Zhou, E. Li, S.-Y. Zhao, X. Ding, W.-Q. Wen, Y.-X. Niu, J. Hu and P. Wang, 110 W high stability green laser using type II phase matching $KTiOPO_4$ (KTP) crystal with boundary temperature control 341

A. Shevchenko, K. Lindfors, S.C. Buchter and M. Kaivola, Evanescent-wave pumped cylindrical microcavity laser with intense output radiation 349

N. Bonod, E. Popov and M. Nevière, Light transmission through a subwavelength microstructured aperture: electromagnetic theory and applications 355

G. Talli and M.J. Adams, Gain recovery acceleration in semiconductor optical amplifiers employing a holding beam 363

S. Yang, E.A. Ponomarev and X. Bao, Experimental study on relaxation oscillation in a detuned FM harmonic mode-locked Er-doped fiber laser 371

*Nonlinear optics*

Z.-B. Liu, W.-Y. Zhou, J.-G. Tian, S.-Q. Chen, W.-P. Zang, F. Song and C.-P. Zhang, Characteristics of co-existence of third-order and transient thermally induced optical nonlinearities in nanosecond regime 377

R. Hao, L. Li, Z. Li, R. Yang and G. Zhou, A new way to exact quasi-soliton solutions and soliton interaction for the cubic-quintic nonlinear Schrödinger equation with variable coefficients 383

K.-P. Ho, Mid-span compensation of nonlinear phase noise 391

F. Théberge, N. Aközbek, W. Liu, J.-F. Gravel and S.L. Chin, Third harmonic beam profile generated in atmospheric air using femtosecond laser pulses 399

C.P. Singh, K.S. Bindra, B. Jain and S.M. Oak, All-optical switching characteristics of metalloporphyrins 407

M. Klug, S.I. Kablukov and B. Wellegehausen, Cw hyper-Raman laser and four-wave mixing in atomic sodium 415

P.Y.P. Chen, P.L. Chu and B.A. Malomed, An iterative numerical method for dispersion-managed solitons 425

N. Korneev and J. Soto, The nonlinear Faraday rotation-based dynamic holography in rubidium vapor 437

D. Hovhannisyan, K. Stepanyan and R. Avagyan, Sum and difference frequency generation by femtosecond laser pulses in a nonlinear crystal 443

*Quantum information*

G.-f. Zhang, S.-s. Li and J.-q. Liang, Thermal entanglement in Spin-1 biparticle system 457

*Bio and medical optics*

C.M. Creely, G.P. Singh and D. Petrov, Dual wavelength optical tweezers for confocal Raman spectroscopy 465

# Vol. 245
# Contents

# 2005